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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/212,107	12/15/1998		JOSE I. ARNO	4070-317.CIP	8874	
25559	7590	11/18/2003		EXAMINER		
ATMI, INC			NGUYEN, NGOC YEN M			
7 COMMER				ART UNIT	PAPER NUMBER	
DANBURY,	C1 008	10		1754		

DATE MAILED: 11/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<i> -</i> √ -
	09/212,107	ARNO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ngoc-Yen M. Nguyen	1754	
The MAILING DATE of this communication app Period for Reply	ars on the cover sheet with the	correspondence address	-
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	mely filed ys will be considered timely. the mailing date of this communic TO (35 U.S.C. § 133).	cation.
1) Responsive to communication(s) filed on <u>01 C</u>	october 2003.		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowal closed in accordance with the practice under E			ts is
Disposition of Claims			
4) ☐ Claim(s) 21,26,27,51-54,57,58 and 61 is/are p 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 21,26,27 and 51-54 is/are allowed. 6) ☐ Claim(s) 57, 58, 61 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers	4		
9)☐ The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the		• •	
Replacement drawing sheet(s) including the correct			` '
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152	2.
Priority under 35 U.S.C. §§ 119 and 120		•	
a) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 13) ☐ Acknowledgment is made of a claim for domestic since a specific reference was included in the first 37 CFR 1.78. a) ☐ The translation of the foreign language pro 14) ☐ Acknowledgment is made of a claim for domestic reference was included in the first sentence of the second content of the sentence of the second content of the sentence of the sente	s have been received. s have been received in Application of the certified copies not received priority under 35 U.S.C. § 119(st sentence of the specification of the certified copies not received priority under 35 U.S.C. § 120(st sentence of the specification o	ion Noed in this National Stage ed. e) (to a provisional applic i in an Application Data S eived. and/or 121 since a spec	cation) Sheet.
•			
Attachment(s)	,, .		
) Notice of References Cited (PTO-892)) Notice of Draftsperson's Patent Drawing Review (PTO-948)) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) fatent Application (PTO-152)	<u>.</u> ·

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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 1, 2003 has been entered.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 57-58, 61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

For claims 57-58, it is disclosed in the instant specification, page 47, lines 30-36, that the first column has a diameter of 21" and the second column has a diameter of 4", the ratio of the second diameter to the first diameter is 4/21 (= 0.19). However, the limitation of "about 0.20" as required in the instant claims 57-58 would include values

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higher than 0.20, such as 0.21. There is no support in the instant specification for any value greater than 0.19.

For claim 61, applicants are requested to point out support for the negative limitation of "the second scrubbing liquid is not recirculated". It is noted that on page 46, lines 4-5 of the instant specification, it is disclosed that because the second column has smaller column size, the "required water flow rate is low enough so that fresh make-up water can be used fro this purpose". This disclosure, however, does not sufficiently support for the above mentioned negative limitation, because the fresh make-up water can be used, not must be used, and even when fresh make-up water was used in the second scrubbing column, the second scrubbing solution still can be recirculated to a different part of the process beside the second scrubbing column.

Claims 21, 26-27, 51-54 are allowed.

Applicant's arguments with respect to claims 21, 26-27, 51-54, 57-58, 61 have been considered but are most in view of the new ground(s) of rejection.

The art rejections under 35 USC 103 are withdrawn in view of the declaration filed October 1, 2003. The declaration shows that the smaller diameter size of the second column provides a better result.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (703) 308-2536. The examiner can normally be reached on Part time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (703) 308-3837. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Ngoc-Yen M. Nguyen
Primary Examiner

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nmn 11/17/03